

AMENDMENTS TO THE CLAIMS

1. (currently amended) A resonator comprising:
an electrode, in part of which an opening is defined, said electrode being formed on a dielectric substrate; and

a plurality of electrode patterns extended inwards from a periphery of said opening so that a plurality of slot lines are arranged substantially radially,
wherein a direction of a current flowing along one edge of each of said electrode patterns is opposite to a direction of a current flowing along an opposite edge thereof.
2. (original) A filter comprising a resonator as set forth in Claim 1, further comprising a signal input/output unit coupled to said resonator.
3. (original) An oscillator comprising a resonator as set forth in Claim 1, and further comprising a reflex amplification circuit coupled to said resonator.
4. (original) A communication apparatus comprising a high-frequency circuit, said circuit comprising a resonator as set forth in Claim 1.
5. (original) A communication apparatus comprising a high-frequency circuit, said circuit comprising a filter as set forth in Claim 2.
6. (original) A communication apparatus comprising a high-frequency circuit, said circuit including an oscillator as set forth in Claim 3.
7. (currently amended) A duplexer comprising:
a transmission filter and a reception filter connected respectively between a transmission signal input port and an input/output port used in common for transmission and reception, and between the input/output port and a reception signal output port;

each said filter comprising a resonator having an electrode, in part of which an opening is defined, said electrode being formed on a dielectric substrate;

a plurality of electrode patterns extended inwards from a periphery of said opening so that a plurality of slot lines are arranged substantially radially; and

a signal input/output unit coupled to said resonator,

wherein a direction of a current flowing along one edge of each of said electrode patterns is opposite to a direction of a current flowing along an opposite edge thereof.

8. A communication apparatus comprising a high-frequency circuit, said circuit including a duplexer as set forth in Claim 7.